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RELATION BETWEEN THE WEAR OF A CUTTING  
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DESCRIPTORS: \*Cutting tools, Drills, Rock, Hardness

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DESCRIPTORS: Fatigue (Mechanics), \*Rocks, USSR,  
Experimental data.

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- III. ATS-93N53R
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DESCRIPTORS: \*Rock, Fracture (Mechanics), Me-  
chanical properties, Geology, Fatigue (Mechanics),  
\*Drills, \*Cutting tools.

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I. Shreiner, S. A.  
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C/STI TT-65-60817 (cav)  
DESCRIPTORS: \*Epoxy plastics, \*Thermal stresses,  
\*Plastic films, Hardening.

The increase and relaxation of stresses in epoxy resin  
ED-5 films in relation to their hardening temperature  
was investigated by a visual optical method. Thermal  
stresses arise at elevated temperatures. The relaxa-  
tion of these stresses proceeds according to Shvedov's  
equation. The relaxation periods depend upon the  
nature of the hardening agent. With films formed in  
the presence of polyethylenepolyamine, equal and non-  
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Order from OTS or SLA \$1.10

61-27777

Trans. of *Kolloidnyi Zhurnal (USSR)* [1960] v. 22,  
no. 4, p. 497-502.

DESCRIPTORS: \*Gelatin, Adhesion, Stresses, Theory.

The non-uniform nature of the internal stress distribution between the surfaces of glue layers was established by the optical method. The kinetics of the development of internal stresses during formation of films on glass surfaces was investigated and the linear dependence of stresses on the thickness of the films was disclosed. In thick films, formed on the glass substratum, there arise stresses which lead to a breaking away of the  
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Order from CFSTI, SLA, or ETC: HCS\$2.00, MF\$0.50 as  
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See also 'Translated or Abstracted Publications,' in  
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Washington, D. C.

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